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MACHINE-TOOL PLANTS INTRODUCE NEW OPERATION METHODS

TBILISI PLANT PRODUCING COMPLEX MACHINE TOOLS --Zarya Vostoka, No 8, 11 Jan 49.

Gross production of the Tbilisi Machine-Building Plant imeni Kirov in 1948 was 83.5 percent greater than it was in 1940. Labor productivity increased 55.8 percent during the same period. Starting with the production of bolt cutters and lathes in 1940, the plant is now serially producing the DIP-300 universal screw-cutting lathe; complex, heavy pipe-trimming machines, and other special machine tools.

The plant has recently introduced such new technological improvements as tempering by high-frequency electrical current, manufacturing bimetal bushings, loading screws by centrifuges, and many others. The number of devices used in the production of the DIP-300 lathes has more than doubled in the last 2 years. In 1948 alone, 370 different devices were introduced.

NEW TOOL-SHARPENING METHOD -- Rechnoy Transport, No 39, 17 May 49

The Saratov Ship-Repair Plant has introduced a nonabrasive method for sharpening cutting tools with a machine tool made by the plant workers. A 1.3-kilowatt electric motor operating at 3,000 revolutions per minute, is mounted on a base; a 300-millimeter-diameter disk is placed on each end of the motor shaft, one disk being of cast iron and the other of steel. Inside the base there is a 1.5-kilowatt, 380/2-5-7-10-volt step-down transformer. One side of the transformer circuit goes to the disks through the brushes, the other side goes to the cutting tool holder through a control panel.

The sharpening process involves starting the electric motor, switching on the transformer, placing the cutting tool in the holder, and moving it up to the disk; as a result of the closed transformer circuit, microvolt arcs are formed between the cutter and the disk, melting the particles of the cutting tool surface to be sharpened. These particles are carried away

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by the rapidly rotating disk. The sharpening speed depends upon the amperage, which is controlled by a switch. Rough grinding is done with 100 - 150 amperes on the cast-iron disk; the finishing and polishing is done with 30 - 70 amperes on the steel disk.

FRUNZE PLANT UPS OUTPUT -- Sovetskaya Kirgiziya, No 7, 11 Jan 49

The Frunze Tool Plant has introduced cost-accounting methods and new production techniques with good results. Production of lathes in the last quarter of 1948 increased more than four times in comparison with production during the same period of 1947. Labor input was lowered 50 percent, and net costs were lowered almost the same amount in the production of these machines. Production of drill chucks and sheep shears also increased significantly, and, at the same time, the net costs of these products were lowered.

Quite apart from considerations of cost accounting, there are some inadequacies in the plant's operations. These are particularly due to the shortage of measuring instruments, such as electric, water, and steam meters.

ARMENIAN PLANT SUCCESSFULL -- Kommunist, No, 111, 13 May 49

Workers of the Machine-Tool Building Plant imeni Dzerzhinskiy produced 40 percent more machine tools in the first quarter of 1949 than in the corresponding period of last year. The plant exceeded its April gross-production plan by 16 percent and its quantity production plan by 10 percent. During the first quarter of 1949, it had 209,000 rubles of above-plan accumulation, lowered net costs by 16.7 percent, and increased the turnover of working capital by 2 days more than was planned. Plant workers have pledged to fulfill the 1949 plan by 29 November.

KIROV PLANT MAKES NEW MACHINE TOOLS -- Izvestiya, No 114, 17 May 49

The "Kirovskiy metallist" Plant produces woodworking machines of various designs, including band saws, swing saws, machines for automatic sharpening of all types of saws, pedal driven block saws, and others.

Experimental tests have been made at the plant with a cooperage machine which automatically cuts out barrel bottoms. Another cooperage machine which cuts out barrel hoops at the rate of 300 per hour has been completed. The new machine tools represent a marked progress in the mechanization of cooperage work.

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